

CRF Errors Corrected by the STIC Systems Branch

20

pctlog

2/26/2002

CRF Processing Date:

Edited by:

Entered by -
Verified by -

Verified by: _____ (STIC staff)

Serial Number: 09/830,831

- Changed a file from non-ASCII to ASCII. **ENTERED** Verified by: 710 (STIC staff)

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically: _____

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other: 2446

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**



PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,837

DATE: 02/26/2002
TIME: 12:26:23

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\02262002\I830837.raw

3 <110> APPLICANT: Institut de Recherches Cliniques de Montreal
 4 SEIDAH, Nabil
 5 CHRETIEN, Michel
 6 MARCINKIEWICZ, Mieczyslaw
 7 LAAKSONEN, Reijo
 8 DAVIGNON, Jean
 10 <120> TITLE OF INVENTION: MAMMALIAN SUBTILISIN/KEXIN ISOZYME SKI-1: A PROPROTEIN
 11 CONVERTASE WITH A UNIQUE CLEAVAGE SPECIFICITY
 13 <130> FILE REFERENCE: ICRM
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/830,837
 C--> 16 <141> CURRENT FILING DATE: 2001-10-18
 18 <150> PRIOR APPLICATION NUMBER: CA 2,249,648
 19 <151> PRIOR FILING DATE: 1998-11-04
 21 <160> NUMBER OF SEQ ID NOS: 76
 23 <170> SOFTWARE: PatentIn Ver. 2.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 3895
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Rattus sp.
 30 <220> FEATURE:
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (418)..(3573)
 34 <400> SEQUENCE: 1
 35 gcgagtaaac atccccgaa tggataacccg aggcgtgttc gcggcggagg ccccgtttc 60
 37 cgggtccgc cgatcccag cctgaggcga cgcagatcgg ctcagagcgg tggcttggc 120
 39 tcctgctaga tttgggtctg tggtagaaat ggagtttagg actcagtgg atcggcccta 180
 41 atgagagaag cccctgtcc aagatggaga agaagcggag aaagaaatga aagcctctt 240
 43 ttgggccaag ctgtgggtga ccatggact gaggtttct ttacgttgaa caagtctgt 300
 45 ggtatggctga tcagtaaggt tgcagcttt agcgaaaaca gaaatccact tctgatcaag 360
 47 gaagagccta gtgcaatttg aatttatgca attttatgac cataattcaact taggacc 417
 49 atg aag ctc gtc aac atc tgg ctt ctt ctg ctg gtg gtt ttg ctc tgt 465
 50 Met Lys Leu Val Asn Ile Trp Leu Leu Leu Val Val Leu Leu Cys
 51 1 5 10 15
 53 ggg aaa aag cat ctg ggt gac agg ctg ggg aag aaa gct ttt gaa aag 513
 54 Gly Lys Lys His Leu Gly Asp Arg Leu Gly Lys Lys Ala Phe Glu Lys
 55 20 25 30
 57 gcc cca tgc ccc agc tgt tcc cac ctg act ttg aag gtg gaa ttc tcc 561
 58 Ala Pro Cys Pro Ser Cys Ser His Leu Thr Leu Lys Val Glu Phe Ser
 59 35 40 45
 61 tca act gtg gtg gaa tat att gtg gct ttc aac gga tac ttc 609
 62 Ser Thr Val Val Glu Tyr Glu Tyr Ile Val Ala Phe Asn Gly Tyr Phe
 63 50 55 60
 65 aca gcc aaa gct aga aac tca ttt att tca agt gct cta aaa agc agt 657

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Input Set : A:\PTO.AMC.txt
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66	Thr Ala Lys Ala Arg Asn Ser Phe Ile Ser Ser Ala Leu Lys Ser Ser				
67	65	70	75	80	
69	gaa gtg gac aac tgg aga ata ata cct cgg aac aac cca tct agt gac	705			
70	Glu Val Asp Asn Trp Arg Ile Ile Pro Arg Asn Asn Pro Ser Ser Asp				
71	85	90	95		
73	tac cct agt gat ttt gag gtg att cag ata aaa gag aag cag aag gcg	753			
74	Tyr Pro Ser Asp Phe Glu Val Ile Gln Ile Lys Glu Lys Gln Lys Ala				
75	100	105	110		
77	ggg ctg ctc aca ctt gaa gat cac cca aac atc aag cgg gtg aca ccc	801			
78	Gly Leu Leu Thr Leu Glu Asp His Pro Asn Ile Lys Arg Val Thr Pro				
79	115	120	125		
81	cag cgg aaa gtc ttt cgt tcc ctg aag ttt gct gaa tcc gac ccc att	849			
82	Gln Arg Lys Val Phe Arg Ser Leu Lys Phe Ala Glu Ser Asp Pro Ile				
83	130	135	140		
85	gtg ccc tgt aat gag acc cgg tgg agc cag aag tgg cag tca tca cgt	897			
86	Val Pro Cys Asn Glu Thr Arg Trp Ser Gln Lys Trp Gln Ser Ser Arg				
87	145	150	155	160	
89	ccc ctg aaa aga gcc agt ctc tcc ctg ggc tct gga ttc tgg cat gca	945			
90	Pro Leu Lys Arg Ala Ser Leu Ser Leu Gly Ser Gly Phe Trp His Ala				
91	165	170	175		
93	aca gga agg cat tca agt cga cga ttg ctg aga gcc att cct cgc cag	993			
94	Thr Gly Arg His Ser Ser Arg Arg Leu Leu Arg Ala Ile Pro Arg Gln				
95	180	185	190		
97	gtt gcc cag aca ttg cag gca gat gtg ctt tgg cag atg gga tac aca	1041			
98	Val Ala Gln Thr Leu Gln Ala Asp Val Leu Trp Gln Met Gly Tyr Thr				
99	195	200	205		
101	ggt gct aat gtc agg gtt gcc gtt ttt gat act ggg ctc agt gag aag	1089			
102	Gly Ala Asn Val Arg Val Ala Val Phe Asp Thr Gly Leu Ser Glu Lys				
103	210	215	220		
105	cat cca cat ttc aag aat gtg aag gaa aga acc aac tgg acc aat gag	1137			
106	His Pro His Phe Lys Asn Val Lys Glu Arg Thr Asn Trp Thr Asn Glu				
107	225	230	235	240	
109	cgg acc ctg gac gat ggg ctg ggc cat ggc aca ttc gtt gca ggt gtg	1185			
110	Arg Thr Leu Asp Asp Gly Leu Gly His Gly Thr Phe Val Ala Gly Val				
111	245	250	255		
113	att gcc agc atg aga gag tgc caa gga ttt gcc cca gat gca gag ctg	1233			
114	Ile Ala Ser Met Arg Glu Cys Gln Gly Phe Ala Pro Asp Ala Glu Leu				
115	260	265	270		
117	cac atc ttc agg gtc ttt acc aac aat cag gtg tct tac acg tct tgg	1281			
118	His Ile Phe Arg Val Phe Thr Asn Asn Gln Val Ser Tyr Thr Ser Trp				
119	275	280	285		
121	ttt ttg gat gcc ttc aac tat gcc atc cta aag aag atg gac gtt ctg	1329			
122	Phe Leu Asp Ala Phe Asn Tyr Ala Ile Leu Lys Lys Met Asp Val Leu				
123	290	295	300		
125	aac ctt agc atc ggt ggg cct gac ttc atg gat cac ccc ttt gtt gac	1377			
126	Asn Leu Ser Ile Gly Gly Pro Asp Phe Met Asp His Pro Phe Val Asp				
127	305	310	315	320	
129	aag gta tgg gaa tta aca gcg aac aat gta atc atg gtt tct gct att	1425			
130	Lys Val Trp Glu Leu Thr Ala Asn Asn Val Ile Met Val Ser Ala Ile				

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Input Set : A:\PTO.AMC.txt
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131	325	330	335	
133 ggc aat gat gga cct ctc tat ggc act ctg aat aac cct gct gat cag				1473
134 Gly Asn Asp Gly Pro Leu Tyr Gly Thr Leu Asn Asn Pro Ala Asp Gln				
135 340	345	350		
137 atg gat gtg att gga gtg ggt ggc att gac ttt gaa gac aac atc gcc				1521
138 Met Asp Val Ile Gly Val Gly Gly Ile Asp Phe Glu Asp Asn Ile Ala				
139 355	360	365		
141 cgc ttc tct tcc agg gga atg act acc tgg gaa cta ccg gga ggc tat				1569
142 Arg Phe Ser Ser Arg Gly Met Thr Thr Trp Glu Leu Pro Gly Gly Tyr				
143 370	375	380		
145 ggt cgt gtg aag cct gac att gtc acc tat ggt gct gga gtg cgg ggt				1617
146 Gly Arg Val Lys Pro Asp Ile Val Thr Tyr Gly Ala Gly Val Arg Gly				
147 385	390	395	400	
149 tct ggt gtg aaa ggg ggc tgc cgt gca ctc tca ggg acc agt gtc gcc				1665
150 Ser Gly Val Lys Gly Gly Cys Arg Ala Leu Ser Gly Thr Ser Val Ala				
151 405	410	415		
153 tcc cca gtg gtt gct ggg gct gtc acc ttg tta gta agc aca gta cag				1713
154 Ser Pro Val Val Ala Gly Ala Val Thr Leu Leu Val Ser Thr Val Gln				
155 420	425	430		
157 aag cgg gag cta gtg aat cct gcc agt gtg aag caa gct ttg ata gca				1761
158 Lys Arg Glu Leu Val Asn Pro Ala Ser Val Lys Gln Ala Leu Ile Ala				
159 435	440	445		
161 tca gcc cgg aga ctt cct ggt gtc aac atg ttt gag caa ggc cat ggc				1809
162 Ser Ala Arg Arg Leu Pro Gly Val Asn Met Phe Glu Gln Gly His Gly				
163 450	455	460		
165 aag ttg gat cta ctg cga gac tat cag atc ctc agc agc tat aaa ccg				1857
166 Lys Leu Asp Leu Leu Arg Ala Tyr Gln Ile Leu Ser Ser Tyr Lys Pro				
167 465	470	475	480	
169 cag gcg agc ctg agt cct agc tac atc gac ctg act gag tgt ccc tac				1905
170 Gln Ala Ser Leu Ser Pro Ser Tyr Ile Asp Leu Thr Glu Cys Pro Tyr				
171 485	490	495		
173 atg tgg ccc tac tgc tcc cag ccc atc tac tat gga gga atg cca aca				1953
174 Met Trp Pro Tyr Cys Ser Gln Pro Ile Tyr Tyr Gly Met Pro Thr				
175 500	505	510		
177 att gtt aat gtc acc atc ctc aat ggc atg gga gtt aca gga aga att				2001
178 Ile Val Asn Val Thr Ile Leu Asn Gly Met Gly Val Thr Gly Arg Ile				
179 515	520	525		
181 gtg gat aag cct gag tgg cga ccc tat tta cca cag aat gga gac aac				2049
182 Val Asp Lys Pro Glu Trp Arg Pro Tyr Leu Pro Gln Asn Gly Asp Asn				
183 530	535	540		
185 att gaa gtg gcc ttc tcc tac tcc tca gtg ttg tgg cct tgg tca ggt				2097
186 Ile Glu Val Ala Phe Ser Tyr Ser Ser Val Leu Trp Pro Trp Ser Gly				
187 545	550	555	560	
189 tac ctt gcc atc tcc att tct gtg acc aag aag gca gct tcc tgg gaa				2145
190 Tyr Ile Ala Ile Ser Ile Ser Val Thr Lys Lys Ala Ala Ser Trp Glu				
191 565	570	575		
193 ggc atc gcg cag ggc cac atc atg atc aca gtg gct tcc cca gca gag				2193
194 Gly Ile Ala Gln Gly His Ile Met Ile Thr Val Ala Ser Pro Ala Glu				
195 580	585	590		

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Input Set : A:\PTO.AMC.txt
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197 acg gaa tta aaa aat ggt gcc gag cat act tcc aca gtg aag ctg ccc	2241
198 Thr Glu Leu Lys Asn Gly Ala Glu His Thr Ser Thr Val Lys Leu Pro	
199 595 600 605	
201 atc aag gtg aag atc att ccc acc cct cct cgg agc aag aga gtc ctc	2289
202 Ile Lys Val Lys Ile Ile Pro Thr Pro Pro Arg Ser Lys Arg Val Leu	
203 610 615 620	
205 tgg gac cag tac cac aac ctc cgc tac cca ccc ggc tac ttc ccc agg	2337
206 Trp Asp Gln Tyr His Asn Leu Arg Tyr Pro Pro Gly Tyr Phe Pro Arg	
207 625 630 635 640	
209 gac aac ttg cgg atg aag aat gat cct tta gac tgg aat ggc gac cac	2385
210 Asp Asn Leu Arg Met Lys Asn Asp Pro Leu Asp Trp Asn Gly Asp His	
211 645 650 655	
213 gtc cac acc aac ttc agg gac atg tac cag cat ctg cgc agc atg ggc	2433
214 Val His Thr Asn Phe Arg Asp Met Tyr Gln His Leu Arg Ser Met Gly	
215 660 665 670	
217 tac ttt gtg gag gtg ctt ggt gcc cca ttc aca tgc ttt gac gcc acg	2481
218 Tyr Phe Val Glu Val Leu Gly Ala Pro Phe Thr Cys Phe Asp Ala Thr	
219 675 680 685	
221 cag tac ggc act ctg ctt atg gtg gac agt gag gaa gag tac ttc cct	2529
222 Gln Tyr Gly Thr Leu Leu Met Val Asp Ser Glu Glu Glu Tyr Phe Pro	
223 690 695 700	
225 gag gag att gct aag ctg agg agg gac gtg gac aat ggc ctt tcc ctt	2577
226 Glu Glu Ile Ala Lys Leu Arg Arg Asp Val Asp Asn Gly Leu Ser Leu	
227 705 710 715 720	
229 gtc gtc ttc agt gac tgg tac aac act tct gtt atg aga aaa gtg aag	2625
230 Val Val Phe Ser Asp Trp Tyr Asn Thr Ser Val Met Arg Lys Val Lys	
231 725 730 735	
233 ttt tac gat gaa aac aca agg cag tgg tgg atg cca gat act gga gga	2673
234 Phe Tyr Asp Glu Asn Thr Arg Gln Trp Trp Met Pro Asp Thr Gly Gly	
235 740 745 750	
237 gcc aac gtc cca gct cta aac gag ctg ctg tct gtg tgg aac atg ggg	2721
238 Ala Asn Val Pro Ala Leu Asn Glu Leu Leu Ser Val Trp Asn Met Gly	
239 755 760 765	
241 ttc agt gac ggc ctg tat gaa ggg gag ttt gcc ctg gca aac cac gac	2769
242 Phe Ser Asp Gly Leu Tyr Glu Gly Glu Phe Ala Leu Ala Asn His Asp	
243 770 775 780	
245 atg tac tat gca tcg ggg tgc agc att gcc agg ttt cca gaa gat ggt	2817
246 Met Tyr Tyr Ala Ser Gly Cys Ser Ile Ala Arg Phe Pro Glu Asp Gly	
247 785 790 795 800	
249 gtg gtg atc aca cag act ttc aag gac caa gga ttg gaa gtc tta aaa	2865
250 Val Val Ile Thr Gln Thr Phe Lys Asp Gln Gly Leu Glu Val Leu Lys	
251 805 810 815	
253 caa gag aca gca gtt gtc gac aat gtc ccc att ctg ggg cta tat cag	2913
254 Gln Glu Thr Ala Val Val Asp Asn Val Pro Ile Leu Gly Leu Tyr Gln	
255 820 825 830	
257 att cca gct gaa ggt gga ggc cgg att gtg ctg tat gga gac tcc aac	2961
258 Ile Pro Ala Glu Gly Gly Arg Ile Val Leu Tyr Gly Asp Ser Asn	
259 835 840 845	
261 tgc ttg gat gac agt cac aga cag aag gac tgc ttt tgg ctt ctg gat	3009

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Input Set : A:\PTO.AMC.txt
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262	Cys Leu Asp Asp Ser His Arg Gln Lys Asp Cys Phe Trp Leu Leu Asp			
263	850	855	860	
265	gca ctc ctt cag tac aca tcc tat ggt gtg acc cct ccc agc ctc agc	3057		
266	Ala Leu Leu Gln Tyr Thr Ser Tyr Gly Val Thr Pro Pro Ser Leu Ser			
267	865	870	875	880
269	cat tca ggg aac cgg cag cgc cca ccc agc ggg gct ggc ttg gcc cct	3105		
270	His Ser Gly Asn Arg Gln Arg Pro Pro Ser Gly Ala Gly Leu Ala Pro			
271	885	890	895	
273	cct gaa agg atg gaa gga aac cac ctt cat cgc tac tcc aaa gtt ctt	3153		
274	Pro Glu Arg Met Glu Gly Asn His Leu His Arg Tyr Ser Lys Val Leu			
275	900	905	910	
277	gag gcc cac ttg gga gac ccg aaa cct ccg ccc ctt cca gcc tgt cca	3201		
278	Glu Ala His Leu Gly Asp Pro Lys Pro Arg Pro Leu Pro Ala Cys Pro			
279	915	920	925	
281	cac ttg tcg tgg gcc aag cca cag cct ttg aat gag acg gca ccc agt	3249		
282	His Leu Ser Trp Ala Lys Pro Gln Pro Leu Asn Glu Thr Ala Pro Ser			
283	930	935	940	
285	aat ctt tgg aaa cac cag aag ctg ctc tcc att gac ctg gac aaa gta	3297		
286	Asn Leu Trp Lys His Gln Lys Leu Leu Ser Ile Asp Leu Asp Lys Val			
287	945	950	955	960
289	gtg tta ccc aac ttt cgc tca aat cgc cct caa gtg aga cct ttg tcc	3345		
290	Val Leu Pro Asn Phe Arg Ser Asn Arg Pro Gln Val Arg Pro Leu Ser			
291	965	970	975	
293	cct gga gaa agt ggt gcc tgg gac att cct gga ggg atc atg cct ggc	3393		
294	Pro Gly Glu Ser Gly Ala Trp Asp Ile Pro Gly Gly Ile Met Pro Gly			
295	980	985	990	
297	cgc tac aac cag gaa gta ggc cag acc atc cct gtt ttt gcc ttc ctt	3441		
298	Arg Tyr Asn Gln Glu Val Gly Gln Thr Ile Pro Val Phe Ala Phe Leu			
299	995	1000	1005	
301	gga gcc atg gtg gcc ctg gcc ttc ttg gta cag atc agt aag gcc	3489		
302	Gly Ala Met Val Ala Leu Ala Phe Phe Val Val Gln Ile Ser Lys Ala			
303	1010	1015	1020	
305	aag agc cgg ccg aag cgg agg agg ccc agg gca aag cgt cca caa ctt	3537		
306	Lys Ser Arg Pro Lys Arg Arg Pro Arg Ala Lys Arg Pro Gln Leu			
307	1025	1030	1035	1040
309	gca cag cag gcc cac cct gca agg acc ccg tca gtg tgatcatcac	3583		
310	Ala Gln Gln Ala His Pro Ala Arg Thr Pro Ser Val			
311	1045	1050		
313	agtggccaga cacagaagct gacaagcttt gaaccctct ggtggccaca cagcatcaga	3643		
315	gagcatcctg ggaagtgcct gtttccaagg agccatatct ctggatttg gctggcttag	3703		
317	tgtgttctgc ccagacgtct atgaggtaca tcctgcagtg cctcaactgtg tttggctctg	3763		
319	gccgaaggtg cccagtagct cagcctccgg tggcatcagg cccagtgaca gtgcaccaaa	3823		
321	gacacagagc ctggaaggc tgcgggaca tacttctac ataatgctac aaccctgacc	3883		
323	aagcgaagac at	3895		
326	<210> SEQ ID NO: 2			
327	<211> LENGTH: 1052			
328	<212> TYPE: PRT			
329	<213> ORGANISM: Rattus sp.			
331	<400> SEQUENCE: 2			

→ Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/830,837

DATE: 02/26/2002
TIME: 12:26:24

Input Set : A:\PTO.AMC.txt
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L:15 M:270 C: Current Application Number differs, Replaced Current Application Number
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:1659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:2601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:2647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76